What Is Claimed Is:

- 1. A laser display device, comprising:
- a laser light source generating laser beams;
- an optical fiber transmitting the laser beams generated from the laser light source; and
- a light phase controller forming a curve in the optical fiber, so as to control a phase of the laser beams passing through the optical fiber.
- 2. The device according to claim 1, wherein the laser light source includes a red laser light source, a green laser light source, and a blue laser light source.
 - 3. The device according to claim 1, wherein the light phase controller comprises: a piezo device;

first and second electrodes respectively formed on upper and lower surfaces of the piezo device, and providing power to the piezo device; and

first and second fixation plates formed on the first electrode to fix the optical fiber.

- 4. The device according to claim 3, wherein the light phase controller further comprises an elastic device for absorbing an oscillation of the optical fiber.
- 5. The device according to claim 4, wherein the elastic device is formed at a bottom surface of the piezo device.

- 6. The device according to claim 3, wherein a groove for inserting the optical fiber is formed on the first and second fixation plates.
 - 7. The device according to claim 3, wherein the piezo device comprises:
- a modifying layer being modified in accordance with a voltage applied to the first and second electrodes; and
- a fixed layer formed to be in contact with the modifying layer, and bending the modifying layer.
- 8. The device according to claim 1, wherein a degree of a curve formed on the optical fiber changes in accordance with a size of the oscillation of the piezo device.
 - 9. A method for controlling a laser display device, comprising: applying a power on a piezo device;

causing an oscillation in the piezo device in accordance with the applied power; and generating a curve in an optical fiber in accordance with the oscillation of the piezo device, and controlling a phase of a light passing through the optical fiber by the curve in the optical fiber through a light phase controller.

- 10. The method according to claim 9, wherein the light phase controller is formed of first and second fixation plates fixing the optical fiber.
- 11. The method according to claim 9, wherein the light phase controller further comprises an elastic device for absorbing the oscillation of the piezo device.

- 12. The method according to claim 11, wherein the elastic device is formed at a bottom surface of the piezo device.
- 13. The method according to claim 10, wherein a groove for inserting the optical fiber is formed on the first and second fixation plates.
 - 14. The method according to claim 9, wherein the piezo device comprises:
- a modifying layer being modified in accordance with a voltage applied to the first and second electrodes; and
- a fixed layer formed to be in contact with the modifying layer, and bending the modifying layer.
- 15. The method according to claim 9, wherein a degree of a curve formed on the optical fiber changes in accordance with a size of the oscillation of the piezo device.